

UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Principal Facts for Gravity Profile Stations in the  
Vicinity of Creede, Mineral County, Colorado

by

G.A. Abrams, and Ileane Judy

Open-File Report 89-434  
1989

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards. Any use of trade names in this report is for descriptive purposes only and does not imply endorsement by the U.S. Geological Survey.

## Table of Contents

	Page
Data Collection.....	1
Elevation Control.....	1
Data Reduction.....	1
Location of Gravity Profile Stations, Figure 1.....	3
Table 1	
Principal Facts of Gravity Data.....	4
Bouguer Gravity Data.....	5
References Cited.....	8
Appendix A	
Gravity Base Station Description.....	9
Appendix B	
Secondary Gravity Base Station Description.....	10

## DATA COLLECTION

A gravity survey was made in the vicinity of Creede, Colorado (fig. 1) in August, 1988 as part of the Deep Observation and Sampling of the Earth's Continental Crust, Inc. (DOSECC). Gravity observations were made using LaCoste and Romberg gravity meter G-551. The gravity stations were referenced to the U.S. Department of Defense (Defense Mapping Agency, 1974) base at Alamosa, Colorado (Appendix A). Gravity loops were started and closed daily by making repeat observations at a secondary base in Creede (Appendix B). Access to the survey area was by secondary roads and jeep trails.

## ELEVATION CONTROL

The survey area is bounded approximately by latitudes  $37^{\circ}48'N - 37^{\circ}58'N$  and longitudes  $106^{\circ}53'-107^{\circ}W$ . One hundred-ten gravity stations were obtained. Station elevations were surveyed with a laser theodolite (accurate to the nearest tenth of a foot), or obtained from benchmarks and spot elevations on 1:24,000 USGS topographic maps. The greatest elevation uncertainty occurs at spot elevations, where the elevation uncertainty is assumed to be one-half the contour interval; thus on a map with 40-ft contour intervals, the maximum Bouguer and free-air correction error would be  $\pm 1.2$  mGals.

## DATA REDUCTION

Computer programs existing on the USGS Branch of Geophysics Digital Equipment Corporation VAX 11 750 computer system were used to obtain principal facts and terrain-corrected gravity values. A program written by M. Webring and R. Wahl (USGS, 1984, unpub. program) was used to reduce gravity meter readings to observed gravity values by calculating and correcting for earth-

tide and linear meter drift. The theoretical gravity value was calculated using the 1967 formula of the Geodetic Reference System (International Association of Geodesy, 1971). Terrain corrections were computed using a program by R. H. Godson (USGS, 1978, unpub. program) correcting for the gravity effects of terrain from each station to a radius of 166.7 km using the method of Plouff (1977). Godson's program also calculates earth curvature corrections and complete (terrain corrected) Bouguer gravity anomaly values. For a complete description of gravity reduction equations and approximations used by the Branch of Geophysics see Cordell and others (1982). These computed terrain corrections use mean elevation digital data on a 15-second grid for corrections from 0.59 to 5 km, 1-minute terrain data for corrections from 5 to 21 km, and 3-minute terrain data for corrections from 21 to 166.7 km. Terrain located less than 0.59 km from a station may not be corrected for by the above procedure due to the coarseness of the terrain model. No additional terrain corrections were done on the present data set. A density of  $2.67 \text{ g/cm}^3$  was used to calculate terrain corrections, giving one complete Bouguer gravity anomaly value for each station. The second complete Bouguer gravity anomaly value was calculated by using a reduction density of  $2.45 \text{ g/cm}^3$ . The corrections and gravity anomaly values are listed in table 1.

-106°55'

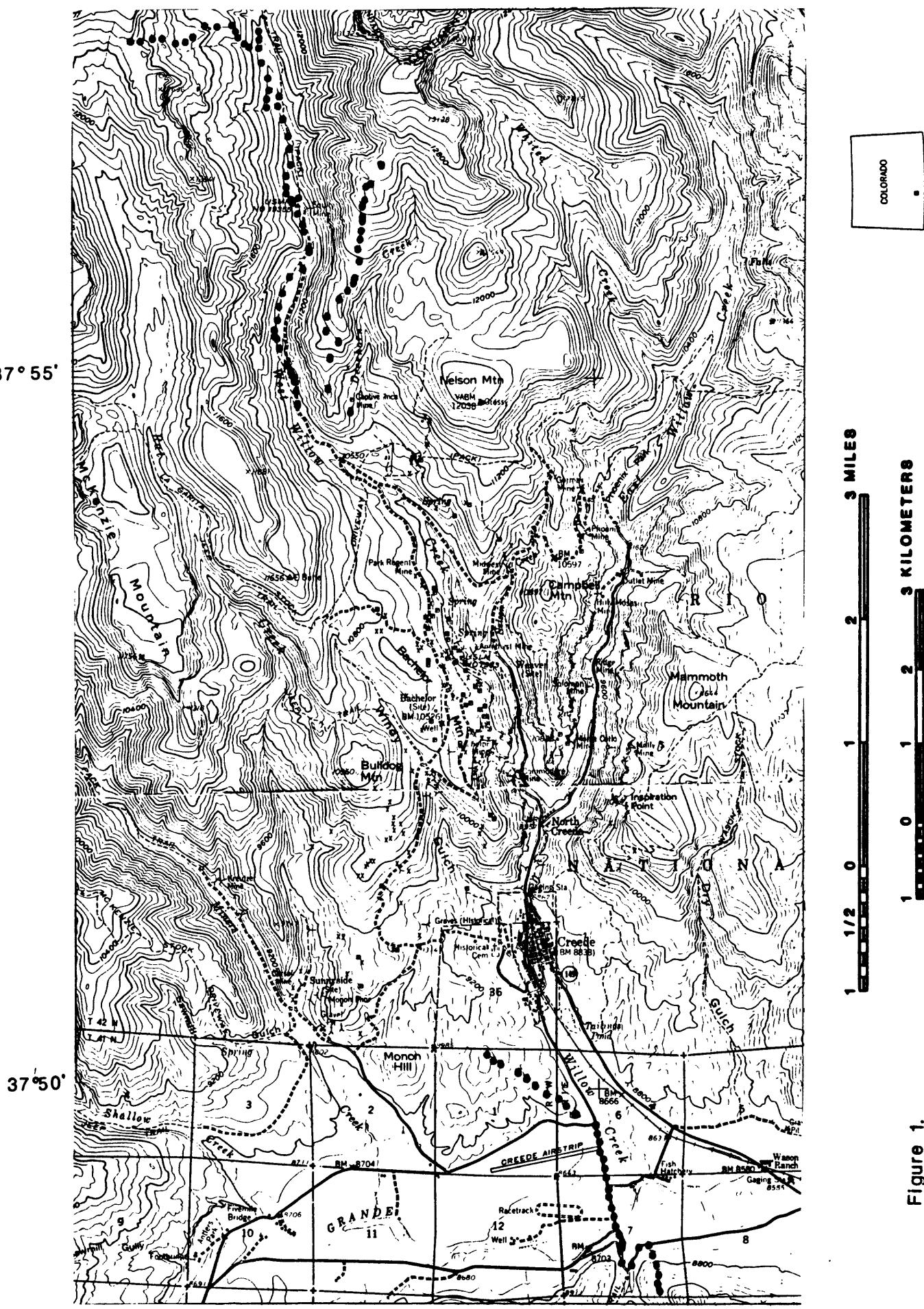


Figure 1.

## Location of Gravity Profiles

• Gravity Station

Table 1: Principal Facts of Gravity Data

**Explanation of headings**

**Identification**

proj	Not used
sta-id	Gravity station identification number

**Locations**

latitude	North latitude in degrees, decimal minutes
longitude	West longitude in degrees, decimal minutes
ele	Station elevation in feet
st	State

**Gravity**

observed	Observed gravity in milligals
theoretical	Theoretical gravity in milligals

**Corrections**

Terrain	Terrain correction, 166.7 km radius, in milligals
Bouguer	Simple Bouguer slab correction in milligals
curv	Curvature correction in milligals
special	Not used

**Anomalies**

free-air	Free-air anomaly in milligals
complete-Bouguer	Complete Bouguer anomaly in milligals for designated densities d1 and d2
spec fields	Not used

## ANUGUFR GRAVITY DATA

CREEF, COL.CRADC  
AUGUST 1968  
2a-551

x

STATION IDENTIFICATION obj sta-id	LOC AT I O N S			GRAVITY ELE ST OBSERVED THEORETICAL			C O R R E C T I O N S			A N O M A L I E S			
	LATITUDE deg min	LONGITUDE deg min	DEPHT min (in ft)				TERRAIN	BOUGUER	CURV	SPECIAL	FREE	COMPLETE-BOUGUER	SPEC AIR
							(d1=2.67)				d1=2.67	d2=2.45	FIELDS
:800	37 56.35	-106 57.72	11198.50	co	978891.43	979986.77	7.86	-381.95	-0.88	0.00	57.16	-317.79	-286.89
:801	37 56.51	-106 57.68	11195.00	co	978891.89	979987.00	9.14	-381.83	-0.88	0.00	57.08	-316.49	-285.71
:802	37 56.43	-106 57.72	11211.00	co	978893.20	979986.88	7.97	-382.37	-0.88	0.00	60.01	-315.27	-284.35
:803	37 56.62	-106 57.69	11230.20	co	978890.01	979987.16	9.66	-383.03	-0.87	0.00	58.35	-315.90	-285.06
:804	37 56.71	-106 57.71	11265.80	co	978898.27	979987.29	9.55	-384.24	-0.86	0.00	59.82	-315.73	-284.79
:805	37 56.83	-106 57.75	11309.80	co	978896.34	979987.47	6.99	-385.74	-0.85	0.00	61.85	-315.76	-284.65
:806	37 56.92	-106 57.80	11363.10	co	978894.02	979987.55	8.13	-387.56	-0.83	0.00	64.41	-315.86	-284.53
:807	37 56.31	-106 57.72	11222.70	co	978890.33	979986.70	7.34	-382.77	-0.88	0.00	58.42	-317.89	-286.89
:808	37 56.99	-106 57.79	11423.10	co	978890.86	979987.70	7.74	-389.61	-0.82	0.00	66.77	-315.92	-284.39
:809	37 56.91	-106 57.89	11349.80	co	978894.91	979987.59	7.87	-387.11	-0.84	0.00	64.05	-316.03	-284.71
:810	37 56.97	-106 57.89	11406.60	co	978891.86	979987.67	7.28	-389.11	-0.82	0.00	66.44	-316.22	-284.69
:811	37 57.03	-106 57.87	11420.80	co	978891.35	979987.76	7.98	-389.53	-0.82	0.00	66.99	-315.38	-283.87
:812	37 57.12	-106 57.89	11451.70	co	978897.73	979987.85	7.94	-390.58	-0.81	0.00	68.13	-315.32	-283.72
:813	37 57.23	-106 57.94	11455.00	co	978897.19	979988.05	8.78	-390.70	-0.81	0.00	67.75	-314.98	-283.44
:814	37 57.33	-106 57.96	11507.10	co	978897.93	979988.20	7.74	-392.47	-0.79	0.00	70.23	-315.29	-283.52
:815,	37 57.45	-106 57.97	11565.60	co	978893.91	979988.36	6.61	-394.47	-0.77	0.00	72.52	-316.11	-284.09
:816	37 57.39	-106 57.97	11540.20	co	978895.20	979988.28	6.94	-393.60	-0.78	0.00	71.53	-315.91	-283.99
:817	37 57.49	-106 58.20	11901.30	co	978894.23	979988.43	4.09	-405.92	-0.66	0.00	84.31	-318.18	-285.01
:818	37 57.45	-106 58.17	11853.60	co	978895.95	979988.38	4.21	-404.29	-0.68	0.00	82.62	-318.15	-285.12
:819	37 57.41	-106 58.15	11822.30	co	978895.17	979988.31	4.32	-403.22	-0.69	0.00	81.96	-317.64	-284.71
:820	37 57.36	-106 58.10	11762.00	co	978892.50	979988.24	4.59	-401.17	-0.71	0.00	79.69	-317.59	-284.86
:821	37 57.34	-106 58.05	11667.50	co	978898.09	979988.21	5.42	-397.94	-0.74	0.00	76.44	-316.82	-284.42
:890	37 50.24	-106 55.98	9202.00	co	979104.84	979977.84	4.12	-313.85	-1.33	0.00	7.99	-319.06	-293.43
:901	37 50.20	-106 55.92	9145.40	co	979108.56	979977.76	3.73	-311.92	-1.34	0.00	9.54	-319.07	-293.56
:902	37 50.17	-106 55.86	9080.30	co	979112.53	979977.73	3.52	-309.70	-1.35	0.00	11.64	-319.17	-293.83
:903	37 50.11	-106 55.71	9000.60	co	979117.08	979977.65	3.45	-306.98	-1.36	0.00	-14.49	-319.38	-294.26
:904	37 50.07	-106 55.63	8954.40	co	979119.75	979977.59	3.47	-305.41	-1.36	0.00	-16.11	-319.41	-294.42
:905	37 50.02	-106 55.55	8933.20	co	979120.57	979977.52	3.50	-304.69	-1.37	0.00	-17.20	-319.75	-294.82
:906	37 49.96	-106 55.46	8896.80	co	979122.73	979977.43	3.56	-303.44	-1.37	0.00	-18.38	-319.63	-294.81
:907	37 49.93	-106 55.35	8887.80	co	979123.10	979977.39	3.64	-303.14	-1.37	0.00	-18.81	-319.68	-294.89
:908	37 49.88	-106 55.28	8857.70	co	979125.07	979977.31	3.68	-302.11	-1.38	0.00	-19.59	-319.40	-294.69
:909	37 49.82	-106 55.20	8835.50	co	979126.28	979977.23	3.67	-301.35	-1.38	0.00	-20.38	-319.44	-294.80
:910	37 49.82	-106 55.19	8835.90	co	979126.20	979977.23	3.67	-301.37	-1.38	0.00	-20.42	-319.50	-294.85
:822	37 57.38	-106 59.10	12513.40	co	978914.55	979988.27	6.55	-426.80	-0.45	0.00	102.27	-318.42	-283.76
:823	37 57.38	-106 59.02	12416.80	co	978920.77	979988.27	5.52	-423.50	-0.48	0.00	99.43	-319.03	-284.55
:824	37 57.40	-106 58.82	12262.20	co	978929.92	979988.30	4.58	-418.23	-0.54	0.00	94.03	-320.16	-286.03
:825	37 57.38	-106 58.61	12103.00	co	978940.82	979988.27	4.32	-412.80	-0.60	0.00	90.01	-319.06	-285.36
:826	37 57.41	-106 58.55	12099.60	co	978941.27	979988.31	4.28	-412.68	-0.60	0.00	90.10	-318.90	-285.20
:827	37 57.48	-106 58.34	11977.10	co	978949.24	979988.41	4.04	-408.50	-0.64	0.00	86.46	-318.64	-285.26
:828	37 57.49	-106 58.44	11947.50	co	978951.02	979988.43	4.23	-407.49	-0.65	0.00	85.45	-318.46	-285.18

## ANIGUER GRAVITY DATA

CREDFC, COLCRACO  
AUGUST 1988  
2a-551

elev=f qu=.01 srt=true a-h 1-x

STATION IDENTIFICATION proj sta-id	LATITUDE			LONGITUDE			GRAVITY			CONTRACTICNS			ANOMALIES		
	deg	min	sec	deg	min	sec	ST OBSRVED	THEORETICAL	TERRAIN	BOUGUER CURV	SPECIAL	FREQUENCY	COMPLETE-BOUGUER	SPEC AIR	d1=2.67 d2=2.45 FIELDS
:715	37	55.91	-106	57.09	12135.50	co	978932.28	979986.13	8.51	-413.91	-0.58	0.00	86.67	-319.32	-285.86
:716	37	55.71	-106	57.12	11899.80	co	978947.61	979985.83	6.80	-405.87	-0.66	0.00	80.16	-319.57	-286.64
:717	37	55.67	-106	57.13	11875.00	co	978948.86	979985.77	6.74	-405.02	-0.67	0.00	79.13	-319.62	-286.95
:718	37	55.62	-106	57.18	11857.10	co	978949.59	979985.70	7.14	-404.41	-0.68	0.00	78.27	-319.68	-286.89
:719	37	55.56	-106	57.26	11832.00	co	978950.91	979985.61	7.50	-403.56	-0.69	0.00	77.31	-319.44	-286.74
:720	37	55.83	-106	57.08	12029.10	co	978939.14	979986.01	7.67	-410.28	-0.62	0.00	83.65	-319.58	-286.35
:911	37	49.09	-106	54.86	8611.00	co	979142.72	979976.16	4.51	-293.70	-1.41	0.00	-23.97	-314.56	-290.62
:912	37	49.74	-106	55.02	6657.00	co	979137.52	979977.11	4.53	-295.27	-1.40	0.00	-25.79	-317.93	-293.85
:913	37	49.68	-106	55.01	8651.00	co	979138.05	979977.02	4.49	-295.06	-1.40	0.00	-25.74	-317.72	-293.66
:914	37	49.62	-106	54.99	8645.20	co	979138.43	979976.94	4.44	-294.86	-1.41	0.00	-25.82	-317.65	-293.60
:915	37	49.55	-106	54.98	86336.50	co	979139.10	979976.83	4.39	-294.57	-1.41	0.00	-25.85	-317.44	-293.41
:916	37	49.50	-106	54.95	8634.80	co	979139.39	979976.76	4.34	-294.51	-1.41	0.00	-25.65	-317.23	-293.20
:917	37	49.43	-106	54.94	8628.00	co	979139.88	979976.66	4.34	-294.26	-1.41	0.00	-25.70	-317.04	-293.04
:918	37	49.36	-106	54.93	8623.60	co	979140.06	979976.55	4.35	-294.13	-1.41	0.00	-25.83	-317.01	-293.02
:919	37	49.28	-106	54.90	8617.00	co	979140.74	979976.44	4.39	-293.90	-1.41	0.00	-25.65	-316.57	-292.60
6	37	49.23	-106	54.90	8616.80	co	979140.83	979976.37	4.39	-293.89	-1.41	0.00	-25.52	-316.43	-292.46
:920	37	49.15	-106	54.88	8617.60	co	979141.39	979976.25	4.41	-293.92	-1.41	0.00	-24.76	-315.68	-291.71
:921	37	49.02	-106	54.85	8600.80	co	979143.78	979976.05	4.70	-293.35	-1.41	0.00	-23.75	-313.81	-289.91
:922	37	48.96	-106	54.81	8610.40	co	979143.97	979975.97	4.90	-293.68	-1.41	0.00	-22.58	-312.76	-288.85
:923	37	48.75	-106	54.49	8650.80	co	979131.60	979975.66	3.81	-301.88	-1.38	0.00	-12.06	-311.50	-286.83
:924	37	48.68	-106	54.47	8898.20	co	979129.02	979975.56	3.79	-303.49	-1.37	0.00	-10.08	-311.15	-286.35
:925	37	48.57	-106	54.45	8932.00	co	979126.81	979975.40	3.86	-304.64	-1.37	0.00	-8.95	-311.10	-286.21
:926	37	48.62	-106	54.47	8944.80	co	979126.20	979975.48	3.76	-305.08	-1.37	0.00	-8.44	-311.12	-286.18
:927	37	48.89	-106	54.55	8722.10	co	979138.35	979975.67	4.17	-297.49	-1.40	0.00	-17.60	-312.31	-288.03
:928	37	48.82	-106	54.52	8774.10	co	979135.62	979975.77	4.01	-295.26	-1.39	0.00	-15.35	-311.99	-287.54
:929	37	48.89	-106	54.79	8637.80	co	979143.22	979975.87	4.76	-294.61	-1.41	0.00	-20.65	-311.91	-287.91
:930	37	48.87	-106	54.79	8653.40	co	979142.34	979975.84	4.64	-295.14	-1.40	0.00	-20.03	-311.94	-287.89
:931	37	48.76	-106	54.79	8695.00	co	979140.37	979975.68	4.47	-296.56	-1.40	0.00	-17.94	-311.43	-287.25
:932	37	46.75	-106	54.70	8706.30	co	979139.65	979975.66	4.45	-296.95	-1.40	0.00	-17.58	-311.48	-287.26
:933	37	48.87	-106	54.64	8733.50	co	979137.84	979975.84	4.07	-297.87	-1.39	0.00	-17.01	-312.20	-287.88

## ROUGUER GRAVITY DATA

CREEDF. COLORADO  
AUGUST 1988  
20-551

STATION IDENTIFICATION #(01)	STA-ID	LATITUDE			LONGITUDE			GRAVITY			CORRECTIONS			ANOMALIES		
		deg	min	sec	deg	min	sec	ST OBSERVED	THEORETICAL	TERRAIN	BUCGUER	CURV	SPECIAL	FREE AIR	COMPLETIF-ROUGUER	SPEC d1=2.67 d2=2.45 FIELDS
:829	37	57.40	-106	58.91	12372.80	00	97.923.73	979968.30	5.21	-422.00	-0.50	0.00	98.22	-319.07	-284.69	
:830	37	57.37	-106	58.70	12170.00	00	978936.38	979986.26	4.38	-415.08	-0.57	0.00	93.87	-317.40	-283.51	
:831	37	56.28	-106	57.62	11140.60	00	978994.23	979986.66	9.12	-379.97	-0.90	0.00	54.64	-317.11	-286.48	
:832	37	56.27	-106	57.63	11165.30	00	978993.36	979986.65	8.27	-380.82	-0.89	0.00	56.11	-317.33	-286.56	
:833	37	56.24	-106	57.67	11163.80	00	978994.54	979986.60	8.20	-380.77	-0.89	0.00	57.20	-316.26	-285.49	
:834	37	56.17	-106	57.62	11115.20	00	978995.52	979986.50	8.81	-379.11	-0.91	0.00	53.72	-317.48	-286.90	
:835	37	56.09	-106	57.58	11115.50	00	978995.28	979986.38	8.17	-379.12	-0.91	0.00	53.62	-318.23	-287.59	
:836	37	56.04	-106	57.57	11105.00	00	978995.67	979986.31	7.78	-378.76	-0.91	0.00	53.10	-318.79	-288.15	
:837	37	55.92	-106	57.52	11051.30	00	978998.01	979986.13	7.65	-376.93	-0.92	0.00	50.57	-319.63	-289.13	
:838	37	55.89	-106	57.52	11042.10	00	978998.73	979986.05	7.70	-376.61	-0.93	0.00	50.46	-319.38	-288.90	
:839	37	55.72	-106	57.69	10957.40	00	979004.37	979985.84	7.61	-373.73	-0.95	0.00	48.40	-318.67	-288.42	
:840	37	55.61	-106	57.76	10944.30	00	979004.67	979985.68	7.30	-373.28	-0.95	0.00	47.64	-319.29	-289.06	
:841	37	55.51	-106	57.79	10931.40	00	979005.03	979985.54	6.77	-372.84	-0.96	0.00	46.93	-320.10	-289.86	
:842	37	55.42	-106	57.80	10942.50	00	979004.37	979985.41	6.14	-373.22	-0.95	0.00	47.44	-320.59	-290.27	
:843	37	55.35	-106	57.83	10947.70	00	979003.92	979985.30	5.90	-373.39	-0.95	0.00	47.58	-320.86	-290.51	
:844	37	55.31	-106	57.83	10943.90	00	979004.24	979985.24	5.89	-373.26	-0.95	0.00	47.61	-320.72	-290.37	
:845	37	55.27	-106	57.58	10976.00	00	979002.60	979985.91	8.05	-374.36	-0.95	0.00	48.31	-318.94	-288.68	
:846	37	55.29	-106	57.65	10923.70	00	979005.61	979985.22	6.12	-372.58	-0.96	0.00	47.10	-320.31	-290.04	
:847	37	55.22	-106	57.79	10889.20	00	979007.31	979985.11	6.47	-371.40	-0.97	0.00	45.67	-320.22	-290.07	
:848	37	55.11	-106	57.72	10856.00	00	979009.11	979984.95	6.54	-370.27	-0.98	0.00	44.51	-320.19	-290.14	
:849	37	55.06	-106	57.69	10843.70	00	979009.57	979984.88	6.44	-369.85	-0.98	0.00	43.89	-320.50	-290.48	
:850	37	55.03	-106	57.67	10838.10	00	979009.89	979984.84	6.28	-369.66	-0.98	0.00	43.73	-320.63	-290.61	
:851	37	54.99	-106	57.65	10832.20	00	979010.28	979984.77	6.11	-369.46	-0.98	0.00	43.63	-320.70	-290.68	
:852	37	54.92	-106	57.64	10777.10	00	979013.28	979984.67	6.78	-367.58	-1.00	0.00	41.55	-320.24	-290.43	
:853	37	54.83	-106	57.63	10727.60	00	979016.12	979984.55	7.26	-365.89	-1.01	0.00	39.86	-319.77	-290.14	
:700	37	54.77	-106	57.16	11080.00	00	978998.32	979984.45	3.84	-377.91	-0.92	0.00	55.26	-319.73	-288.83	
:701	37	54.93	-106	57.36	11390.00	00	978974.03	979984.69	5.47	-398.48	-0.83	0.00	59.85	-323.99	-292.36	
:702	37	55.15	-106	57.34	11563.00	00	978967.94	979985.01	6.07	-394.38	-0.77	0.00	69.68	-319.40	-287.35	
:703	37	55.26	-106	57.27	11665.00	00	978962.09	979985.17	7.52	-397.86	-0.74	0.00	73.25	-317.83	-285.61	
:704	37	55.34	-106	57.37	11730.00	00	978956.12	979985.29	7.65	-400.08	-0.72	0.00	73.26	-319.89	-287.49	
:705	37	55.44	-106	57.36	11773.00	00	978952.58	979985.44	7.73	-401.54	-0.71	0.00	73.61	-320.91	-288.40	
:707	37	56.37	-106	56.98	12565.00	00	978904.87	979986.80	10.50	-428.56	-0.43	0.00	98.91	-319.58	-285.09	
:706	37	56.35	-106	57.02	12577.00	00	978902.88	979986.77	10.71	-428.97	-0.42	0.00	98.08	-320.60	-286.10	
:708	37	56.50	-106	56.88	12660.00	00	978898.62	979986.98	9.38	-431.80	-0.39	0.00	101.39	-321.42	-286.58	
:709	37	56.26	-106	57.03	12547.10	00	978904.43	979986.63	11.42	-427.95	-0.43	0.00	96.95	-320.01	-285.65	
:710	37	56.21	-106	57.05	12512.50	00	978906.71	979986.56	11.37	-426.77	-0.45	0.00	96.06	-319.79	-285.52	
:711	37	56.14	-106	57.05	12438.30	00	978911.60	979986.46	10.21	-424.23	-0.47	0.00	94.08	-320.42	-286.26	
:712	37	56.11	-106	57.05	12361.00	00	978916.87	979986.41	9.15	-421.60	-0.50	0.00	92.14	-320.81	-286.79	
:713	37	56.04	-106	57.06	12286.20	00	978922.08	979986.31	8.90	-419.05	-0.53	0.00	90.43	-320.25	-286.41	
:714	37	55.98	-106	57.07	12214.10	00	978927.06	979986.23	8.67	-416.59	-0.56	0.00	88.73	-319.75	-286.09	

References Cited

Cordell, Lindrith, Keller, G.R., and Hildenbrand, T.G., 1982, Bouguer Gravity Map of the Rio Grande Rift, Colorado, New Mexico, and Texas, U.S. Geological Survey GP-949.

Defense Mapping Agency, 1974, World Relative Gravity Reference Network, North America, Part 2: Defense Mapping Agency Aerospace Center Reference Publication 25, with supplement updating gravity values to the International Gravity Standardization Net 1971, Aerospace Center, St. Louis, AFS, Missouri, 1635 p.

International Association of Geodesy, 1971, Geodetic Reference System, 1967, International Association of Geodesy, Special Publication, no. 3, 116 p.

Plouff, D., 1977, Preliminary documentation for a FORTRAN program to compute gravity terrain corrections based on topography digitized on a geographic grid: U.S. Geological Survey Open-File Report 77-535, 43 p.

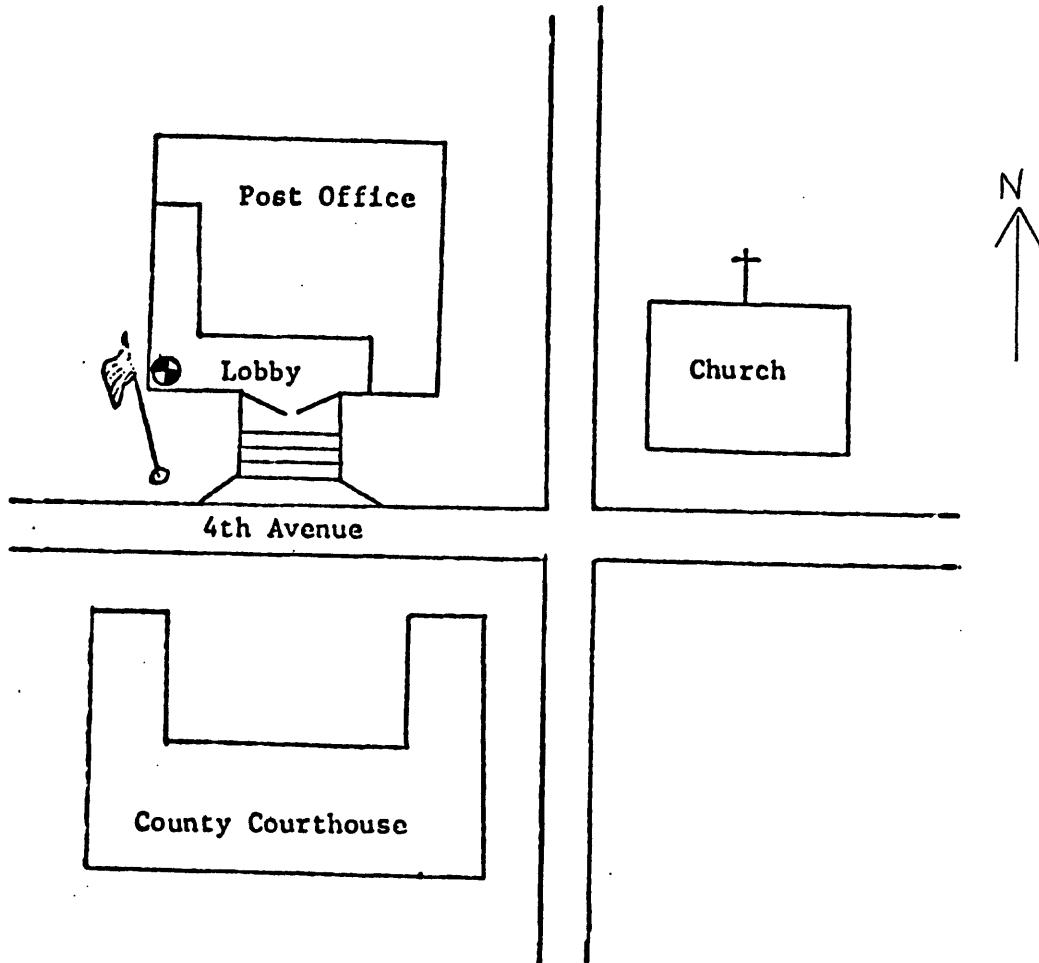
## APPENDIX A

## GRAVITY BASE STATION

LATITUDE 37° 28.21'N	(1)	STATION DESIGNATION ALAMOSA
LONGITUDE 105° 52.16'W	(1)	COUNTRY/STATE USA/Colorado
ELEVATION 2300.9 METERS	(1)	ADOTTED GRAVITY VALUE $g = 979\ 234.98$ mgals
REFERENCE CODE NUMBERS ACIC 4016-1 IGB 11975B		ESTIMATED ACCURACY ± 0.1 mgals
		DATE MONTH/YEAR 1971

## DESCRIPTION AND/OR SKETCH

The station is located at the Post Office in Alamosa, on the corner of San Juan Avenue and 4th Avenue, in the southwest corner of the Post Office lobby. It is marked with a USAF Gravity disc. (1)



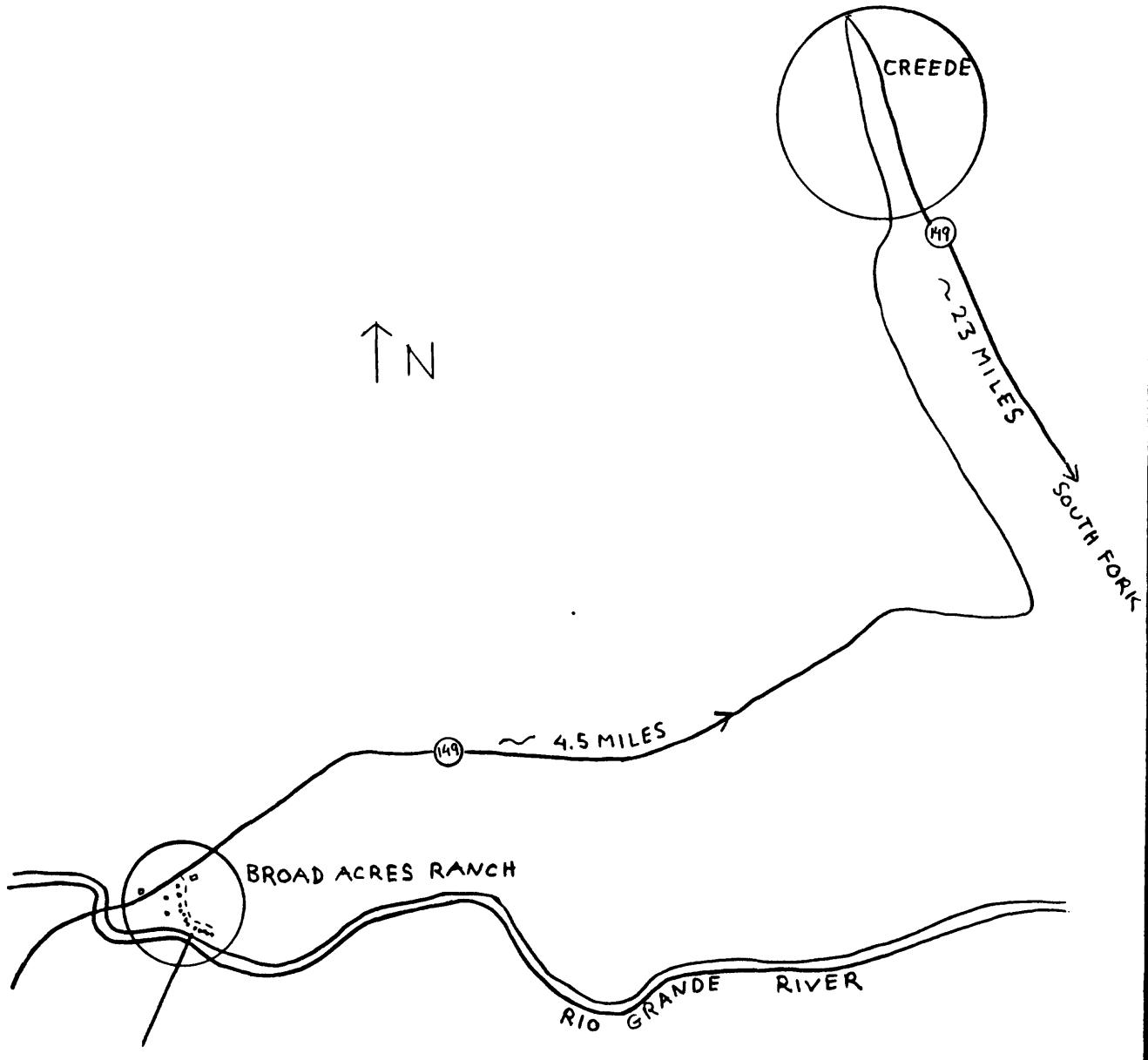
(1)

## APPENDIX B

## SECONDARY GRAVITY BASE STATION

LATITUDE	37° 48.98'N	(1)	STATION DESIGNATION	
LONGITUDE	106° 57.86'W	(1)	CREEDE	
ELEVATION	8689 ft	METERS (1)	COUNTRY/STATE	USA/Colorado
REFERENCE CODE NUMBERS	ADOPTED GRAVITY VALUE			
	$g = 979137.01 \text{ mgals}$			
	ESTIMATED ACCURACY		DATE	
	$\pm 0.1 \text{ mgals}$		MONTH/YEAR	5/1985

DESCRIPTION AND/OR SKETCH



REFERENCE SOURCE

10

(1)